Listing of Claims

The following listing of claims will replace all prior versions, and listings, of claims in the subject application:

- (original) A method of detecting script language viruses in data streams comprising:
 preparing language description data corresponding to at least one script language;
 preparing detection data for viral code corresponding to the script language virus; and
 lexically analyzing a data stream using the language description data and the detection
 data to detect the viral code.
- (original) The method of claim 1, wherein the language description data correspond to
 Dynamic Finite Automata data.
- 3. (original) The method of claim 2, wherein the Dynamic Finite Automata data comprises a set of states, with each state having a corresponding set of transitions and each transition having an associated character to be matched and an associated next state.
- (original) The method of claim 1, wherein the language description data correspond to language definition rules and language check rules.
- (original) The method of claim 4, wherein the lexical analysis includes one or more pattern matches based on the language definition rules.

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- 6. (original) The method of claim 4, wherein a script language used by the data stream is determined by the lexical analysis using the language check rules.
- 7. (original) The method of claim 1 further comprising setting language definition rules for each of the at least one script language.
- 8. (original) The method of claim 1, wherein the detection data comprise at least one test, wherein each of the at least one test correspond to a pattern match or a cyclical redundancy check.
- (original) The method of claim 1, wherein the step of preparing detection data comprises:

obtaining samples of the viral code;

analyzing the obtained samples; and

setting a detection regimen that includes at least one pattern match or cyclical redundancy check based on the analysis of the obtained samples.

- 10. (original) The method of claim 1, wherein the data stream is converted to a stream of tokens using lexical analysis.
- (original) The method of claim 10, wherein the tokens correspond to respective language constructs.

- 12. (original) The method of claim 10, wherein a cyclical redundancy check is performed on the stream of tokens to detect viral code.
- 13. (original) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform method steps for detecting script language viruses, the method steps comprising:

preparing language description data corresponding to at least one script language;

preparing detection data for viral code corresponding to the script language virus; and
lexically analyzing a data stream using the language description data and the detection
data to detect the viral code.

- 14. (original) A computer system, comprising: a processor; and
- a program storage device readable by the computer system, tangibly embodying a program of instructions executable by the processor to perform method steps for detecting script language viruses, the method steps comprising:

preparing language description data corresponding to at least one script language;

preparing detection data for viral code corresponding to the script language virus; and
lexically analyzing a data stream using the language description data and the detection
data to detect the viral code.

15. (original) A computer data signal embodied in a transmission medium which embodies instructions executable by a computer for detecting a script language virus, comprising: a first segment including script language processor code to prepare language description data corresponding to at least one script language;

a second segment including detection data processor code to prepare detection data for viral code corresponding to the script language virus; and

a third segment including detection engine code to lexically analyze a data stream using the language description data and the detection data to detect viral code.

16. (original) An apparatus for detecting script language viruses, comprising:

a script language processor, wherein the script language processor prepares language description data corresponding to at least one script language;

a detection data processor, wherein the detection data processor prepares detection data for viral code corresponding to a script language virus; and

a detection engine, wherein the detection engine lexically analyzes a data stream using the language description data and the detection data to detect the viral code.

- 17. (original) The apparatus of claim 16, wherein the language description data correspond to Dynamic Finite Automata data.
- 18. (original) The apparatus of claim 17, wherein the Dynamic Finite Automata data comprises at least one set of states, with each state having a corresponding set of transitions and each transition having an associated character to be matched and an associated next state.
 - 19. (original) The apparatus of claim 16, wherein the language description data

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correspond to language definition rules and language check rules.

- 20. (original) The apparatus of claim 19, wherein the lexical analysis by the detection engine includes one or more pattern matches based on the language definition rules.
- 21. (original) The apparatus of claim 19, wherein a script language used by the data stream is determined by the lexical analysis of the detection engine using the language check rules.
- 22. (original) The apparatus of claim 16, wherein the detection data comprise at least one test, and each of the at least one test correspond to a pattern match or a cyclical redundancy check.
- 23. (currently amended) The apparatus of claim 16, wherein the detection engine converts the data stream to a stream of tokens using lexical analysis, and the tokens correspond to respective language constructs.